CANADA'S ICE-FIELD HIGHWAY

Defying description, this spectacular highway ranks among the great "highroads" of the world. Its entire length of 142 miles commands some of the most breath-taking and majestic scenery in the Canadian Probles

A panorama of mountain ranges, unbroken but ever-changing, flanks both sides of the highway eweeping from Lake Louise to Jasper townsite At places the highway reaches a height of nearly 7,000 feet above sea-level Several of the mountains in the region rise to more than 11,000 feet and are perpetually snow-capped.

The road passes within a mile of the Athabasca Glacier-a tongue of the great Columbia Ice-field, An access road takes you up beside the glacier for a snowmobile tour on the ice mass. At other points the motorist may stop and explore deep and awesome canyons, thrill to mighty waterfalls tumbling out of rocky chasms, or wonder at jewel-like mountain lakes that are ever in colour harmony with the mountain peaks and the skies above them.

Arrow signs along the road point to features of special interest, many of which are listed in this publication

Wildlife, including many large animals, often may be seen along the roadside. Bungalow cabins, chalets, provide convenient accommodation along the route.

Further details can be obtained from information offices at Banff and Jasper townsites. Lake Louise station and at the Columbia Ice-field.

THE COLLIMBIA ICE-FIELD

The Columbia Ice-field centre of the greatest known accumulation of ice in the Rocky Mountains is not only one of the most interesting ice-fields in North America but also one of the most accessible. Near the highway it straddles the British Columbia-Alberta horder and lies across the boundary of Banff and

With its outlet placiers, the Columbia Ice-field covers an area of nearly 150 square miles of which fully 50 in the area of accumulation, usually called the neve From this great ice reservoir lying between Snow Dome Mounts Castlemard and Columbia and capping the Continental Divide for a distance of about 20 miles, three valleys radiate. Through them flow the Athabasca, the Saskatchewan and the

From other points smaller ice tongues flow into the surrounding valleys, and in a number of places ice glaciers as the Dome Glacier and the King Edward Glacier between Mounts Columbia and King Edward

Melt waters of the Columbia Ice-field flow into three great rivers-the Athabasca (765 miles) a subtributary of the Mackenzie River which flows into the Arctic Ocean: the Saskatchewan (1 205 miles) which crosses the prairies and empties into Lake Winnipeg and, via the Nelson River, into Hudson Bay; and the Columbia (1.210 miles) which cascades its way through scenic gorges, crossing into the United States before entering the Pacific.

THE ATHABASCA GLACIER

Viewed from the highway or at close range by snowmobile, the massive Athabasca Glacier presents a magnificent sight. About six miles in length with a depth ranging from 600 feet to 1,000 feet, the huge ice tongue stretches to the northwest, guided by Andromeda and Athabasca Mountains and Snow

Well-defined and apparently recently-formed terminal and marginal moraines (see Glossary) indicate that the Athahassa and nearby Dome Glaciere were inined at one time

The present glaciers are rempants of the immense continental ice-can which once covered a large part of the northern half of this continent

Although in general glaciers are shrinking it will be centuries before these mighty fortresses of ice give up their claim on the Rocky Mountains

Glacier Formation and Recession

Great depths of snow accumulate in mountain basins at high altitudes. The weight of this snow assisted by surface melting, causes the lower layers to compact and form solid ice. Under the great pressure, together with gravitation, the glacier flows like a plastic body -though not more than a few inches a day-into the surrounding valleys.

When the slowly moving ice mass reaches lower altitudes melting occurs during the summer months forming glacial streams.

The shrinkage of glaciers is seen in the number of where glaciers descend. The nearest moraine to a tongue of ice is almost bare: the next moraine is some distance away from the ice tongue and perhaps has bushes growing on it; and others as far as a mile or two away might well be covered by forests.

Glacial recession has been caused basically by slight by lower rates of precipitation and longer periods of sunshine

Glossarv

Crevasses-As a glacier flows over a rock bed or reaches a space of increased incline, tension is exerted in the upper portion of the ice until it ruptures. Such cracks or crevasses are enlarged from tiny openings by melting and changes of slope until they may become

Seracs-As the placier advances, these crevasses are bent out of shape and may be crossed by fresh crevasses, splitting up the ice into wild-looking lumps and pinnacles called seracs.

Ice-falls and transverse crevasses-Passing over an uneven hed the body of a glacier is first bent in one direction and then in the other. When the slope increases great openings are formed across the glacier which are known as transverse crevasses, as they usually occur almost at right angles to the direction of the flow. The ice at this point may form in great steps with crevasses between them. This is known as an

Glacier tables-Medium-sized rocks a few feet across called glacier tables are left standing on pedestals of ice, as they protect the placier beneath from the sun, while thawing goes on around them

Markinal Moraines-Debris torn from the mountainside and rocks even as large as cottages are carried along by a glacier. This fringe of broken rock on the edge of the glacier is a marginal moraine

Terminal Moraines-When a whole mass of debris is carried steadily onwards to a point where melting is complete and no more can be borne, then a terminal moraine-a steen and rugged pile of loose rocks-is built up at the front of a glacier.

FRONT PANEL

Like a satin ribbon, the Banff-Jasper Highway winds smoothly past lordly mountains dark with spruce.

BACK PANEL

Rumbling over age-old glaciers spilling out of mountain basins, peering into deep crevasses from a snowmobile, are experiences land to be remembered

For additional copies of this publication or other information on Canada's National Parks, write to:

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HIGHWAY IPATI in BANFF and JASPER

NATIONAL PARKS

Reg. No. 44-8-P-8



Gripping the sheer slopes of the surrounding mountains, the Dome Glacier is easily accessible from the Columbia Ice-field Chalet lying below.

| | POINTS OF INTEREST (read do | wn) |
|--|--|----------------------|
| V EDMONTOH 235 MILES Distances | | 0.0 Miles |
| JASPER Malore Corpor approximate | reau. Outdoor heated swimming pool, tennis | Jasper |
| THE WHISTLERS and are not related to | courts, hotels, bungalows, campgrounds. Miette Hot Springs, 38 mi. | Townsite |
| Anethra 6085 Telegraph Tel | 141.2 JUNCTION with road to Athabasca River, Old Fort Point and Lac Beauvert Loop, 2 | 0.6 |
| individual | mi. 140.8 Bungalows. | 1.0 |
| JASPER cars | 140.7 Miette River. Confluence with Athabasca River. | 1.1 |
| Account to the second | 140.3 Bungalows. 139 Whistlers Campground; road to Whistlers | 1.5 |
| Material Like | Mt. and Sky Tram. | 3.3 |
| MT COUNT CAVELLE O | 137.8 Whistlers Creck, Bungalows. 135.5 Portal Creek, | 4.0 |
| Lead 19 Married Co. 1 and 19 | 133.5 Junction road along southwest side of river to Mt. Edith Cavell, 11 mi; | 8.3 |
| Alhabasca Follo | river to Mt. Edith Cavell, 11 mi; Tea Room and Chalet, 9 mi; Angel Glacier 9 mi; 8 mi. to entrance of trail | |
| I Guille (ExTM.) | Glacier 9 mi; 8 mi, to entrance of trail to Tonquin Valley; Wabasso Campground | |
| Later College 4 Property College Colle | | |
| | 377 ml., Athabasca Falls, 12.7 miles 132 Athabasca River Bridge. 133.0 Trail to Valley of Five. 128.3 Viewpoint, Mr. Hardisty and Kerkeslin. 127.8 Viewpoint, Mr. Kerkeslin and Edith Cavell. | 9.8 |
| MATT STATE OF A STATE | 128.3 Viewpoint, Mt. Hardisty and Kerkeslin. 127.8 Viewpoint, Mt. Kerkeslin and Edith Cavell. | 10.9 13.5 14.0 |
| NATIONAL Maligne | 125.2 Horseshoe Lake | 16.6 |
| CHRISTIC ACTION TO Lake | 124.4 Viewpoint, Whirlpool Mt. to southwest, Mts. Fryatt, Christie to southeast | 17.4 |
| Loke | | 19.5 |
| Samuelas halts () | 121.7 Warden's cabin | 20.1 |
| | 118.4 "Athabasca River Viewpoint. Mounts Christic, 2 | 23.4 |
| | | 32.2 |
| 1 6 6 1 S/ 3 Care | trout. Campground. 109.2 Road to Buck Lake, 200 yds. Angling, Brook 3 | 32.6 |
| PARK/ | | 34.0 |
| Park Boundary | Room, gas. *Sunwapta Falls, 1/4 mi. | 37.7 |
| Cabino or chairts A Camp(rounds A | 97.1 Poboktan Creek (Stoney Indian for "oud") | 44.7 |
| Warden's Cabin | Warden's Cabin. | 47.8 |
| The state of the s | 86.8 Beauty Creek and Falls. | 54.0 55.0 |
| | 84.3 *Stutfield Glacier Viewpoint. 82.8 Tangle Creek, near foot of grade which ascends | 57.5 |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | lower slopes of Wilcox Peak. | |
| STUTHOLD STUTHOLD PK | 79.8 "SUMMIT VIEWPOINT, Sunwapta Canyon, | 61.0 62.0 |
| | Mount Kitchener and Snow Dome. | 65.0 |
| NICHENER SAME | Glacier, Mount Athabasca, Snow Dome. | |
| (2.7) | Chalet, dining room, service station. Snow- mobile trips on Athabasca Glacier. Informa- | |
| Company Compan | | 66.0 |
| C IMS2 Feet C EMT. ATHABASCA! | 73.8 BANFF-JASPER PARKS BOUNDARY. Sunwapta Summit (6,675'). | 68.0 |
| Go manual etc. | 71.8 Hilda Creek. Canadian Youth Hostel. 71.5 Trail to Parker Ridge Viewpoint, I mile, View | 70.0 |
| Pather Fall | of Saskatchewan Glacier and Southern end of | |
| MT. SASKATCHEWAN) A CHRUS SASKATCHEWAN) 5465 | | 70.7 |
| 1054 - 5/4 MI | wapta Pass northwest. | 73.6 |
| Alessedic | chewan. Cirrus Mountain eastward. | 74.3 |
| Same and the same of the same | 66.5 Big Hill Creek. | 75.3 |
| MT. AMERY | 61.7 Park Maintenance Camp. Emergency tele- | 78.0 80.1 |
| 10940 MT. WILSON | phone. | 84.1 |
| 200 C C C C C C C C C C C C C C C C C C | ward. Mount Amery. | 84.4 |
| SURVEY PK | Warden's Cabin, Canadian Youth Hostel, | 27.7 |
| | | 85.8 |
| Mark South Street | chewan northwest. Look for moose. 54.5 Campground. Rampart Creek. | 87.3 |
| MT FORBES | 47.4 Bungalow Camp, gas, meals, Store. | 94.4 94.9 |
| | Mistaya River Valleys. | 95.5 |
| | 46.0 Saskatchewan River District Warden Head- | 95.8 |
| | quarters. Emergency telephone. 44.0 Mistaya Canyon. Short trail from parking area. | 97.8 |
| Tar Maria | 40.0 *VIEWPOINT. Mount Chephren south, Kauff- man Peaks. | 01.8 |
| CHEMPTEN A Labor | 37.6 Totem Creek, Canadian Youth Hostel. | 04.2 05.7 |
| San (C.) | Mount Chephren. | 06.3 |
| × (21.53) | 35.1 Park Maintenance Camp. Emergency tele- 10 | 06.7 |
| A MI | | 07.4 |
| PATTERSON | moose. 32.2 Mount Barbette and Barbette Glacier, looking 10 | 09.6 |
| ž / THE | southwest. | 10.2 |
| OF NOTE OF THE PROPERTY OF THE | ward. | 11.9 |
| | 26.8 *VIEWPOINT. Peyto Glacier and Wapta Ice- 1: | 15.0 |
| O Comment B A N F F | | 16.7 |
| > \(\frac{1}{2}\) | 3/4 mile to viewpoint of Glacier, Lake and Valley north. Nature trail starts at viewpoint. | |
| PEAK 14 | 24.1 Mistaya District Warden Headquarters. 1 Emergency telephone. | 17.7 |
| Hange S. J. J. | 22.3 *VIEWPOINT. Bow Glacier and head of Crow- 11 | 19.5 |
| TO REVELSTORE MAD VANCOUVER HECTOR | | 19.7 |
| MID VANCOUVER WECTOR | | 20.8 |
| 1 6 3 1 | 20.6 Campground, south end of Bow Lake. 1: | 21.2 |
| NATIONAL | 17.6 Helen Creek, Trail to Helen and Katharine 13 | 21.7 24.2 |
| Fortill Co. | Lakes. | 27.5 |
| X Cant & | south side of Mosquito Creek. Dolomite | |
| | 10.1 °VIEWPOINT, Hector Lake, Mount Balfour. 13 | 31.7 |
| Louis A Dake Louise Jet Miles | 1.7 Herbert Lake. For picnic tables turn off south | 35,8 40.1 |
| Miles Louise Jet. Ivales from Junction | end. | 11.8 |
| Trans- Canada | From JUNCTION to BANFF TOWNSITE-36.5 miles. | |
| PARK Highway and Banff- | BANFF TOWNSITE (4,538'). Headquarters of Banff No Park. Information Bureau. Hotels, bungalows and public | ational |
| and Banti Jasper Highway | Park. Information Bureau. Hotels, bungalows and public grounds. Mineral hot springs. | camp |
| Highway (read up) | *Photographic Point | |
| * 7 | | |
| PAR STATE OF THE S | TO MOREIN | |
| | LAKE LOUISE LOWER TOWNSITE | |
| TO RADIUM | TO YOHO San Description Services | |
| WALL CEDITION | The same of the sa | |
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